

## EAST Search History

| Ref # | Hits   | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|--|---|------------------|---------|---------------------|
| L21   | 204543 | (image near pickup) or<br>(image near sensor)                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L22   | 232007 | (charge near read\$3) or<br>(charge near readout) or<br>CCD              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L23   | 9611   | L21 same (housing or<br>package)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L24   | 552991 | (fiber near optic) or<br>(optical near fiber) or<br>(light near guid\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L25   | 843    | L22 and L23 and L24  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L26   | 428    | L25 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L27   | 2      | ("4760031").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:18 |
| L28   | 2      | "10530754"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/02/17<br>00:21 |

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| L29 | 2      | "09199699"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L30 | 4      | "2002033467"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L31 | 4      | "11188033"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L32 | 2      | ("4760031").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L33 | 204543 | (image near pickup) or<br>(image near sensor)                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L34 | 232007 | (charge near read\$3) or<br>(charge near readout) or<br>CCD              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L35 | 9611   | L33 same (housing or<br>package)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L36 | 552991 | (fiber near optic) or<br>(optical near fiber) or<br>(light near guid\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L37 | 843    | L34 and L35 and L36  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |

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| L38 | 428    | L37 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L39 | 549    | L37 and (cap or lid or cover)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L40 | 337    | L38 and @ad< "20060202"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L41 | 20011  | ((charge near read\$3) or (charge near readout) or CCD) same substrate | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L42 | 196    | L41 and L35 and L36  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L43 | 337    | L40 and @ad< "20060202"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L44 | 176    | L42 and @ad< "20060202"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L45 | 193783 | "111" and substrate and @ad< "20060202"                                | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L46 | 244    | L39 and substrate and @ad< "20060202"                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |

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| L47 | 8   | ("4291275"   "4405915"   "4583002"   "4621275"   "4650984"   "4651015"   "4916304").PN. OR ("5128532").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/02/17<br>00:21 |
| L48 | 36  | L44 not L46  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L49 | 104 | L46 not L44  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L50 | 406 | L39 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L51 | 2   | "5614763".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L52 | 38  | ("3969754"   "4556899"   "4788627"   "4872047"   "4884124"   "4916442"   "4942454"   "4962416"   "5134680"   "5172301"   "5252850").PN. OR ("5614763").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/02/17<br>00:21 |
| L53 | 294 | 257/432.ccls. and "optical fiber"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L54 | 182 | L53 and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L55 | 94  | 257/433.cor. and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L56 | 101 | 257/433.ccls. and "optical fiber" and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L57 | 11  | 257/434.cor. and "optical fiber" and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L58 | 1   | 257/447.cor. and "optical fiber" and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |

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| L59 | 35     | 257/e31.127.ccls. and "optical fiber" and @ad<"20021009"           | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L60 | 91     | 257/e31.128.ccls. and "optical fiber" and @ad<"20021009"           | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L61 | 204543 | (image near pickup) or (image near sensor)                         | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L62 | 232007 | (charge near read\$3) or (charge near readout) or CCD              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L63 | 9611   | L61 same (housing or package)                                      | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L64 | 552991 | (fiber near optic) or (optical near fiber) or (light near guid\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L65 | 843    | L62 and L63 and L64  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L66 | 428    | L65 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L67 | 337    | L66 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L68 | 201    | L67 and "optical fiber"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |

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| L69 | 12     | 257/e31.131.ccls. and "optical fiber" and @ad<"20021009" | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L70 | 0      | 257/291.cor. and "optical fiber" and @ad<"20021009"      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L71 | 8      | 257/291.ccls. and "optical fiber" and @ad<"20021009"     | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L72 | 0      | zetetic.in. and "optical fiber" and @ad<"20021009"       | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L73 | 1      | zetetic.asn. and "optical fiber" and @ad<"20021009"      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L74 | 15     | zetetic.asn. and @ad<"20021009"                          | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L75 | 2      | "09199699"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L76 | 2      | "62189883"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L77 | 4      | "2002033467"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L78 | 4      | "11188033"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L79 | 4      | "2000028735"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L80 | 204543 | (image near pickup) or (image near sensor)               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |

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| L81 | 232007 | (charge near read\$3) or<br>(charge near readout) or<br>CCD  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L82 | 9611   | L21 same (housing or<br>package)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L83 | 552991 | (fiber near optic) or<br>(optical near fiber) or<br>(light near guid\$3)                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L84 | 843    | L22 and L23 and L24  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L85 | 428    | L25 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L86 | 228    | L26 and @ad< "20021009"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L87 | 2      | "4760031".PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L88 | 22     | ("3796932"   "4040092"  <br>"4290187"   "4349742"  <br>"4477294"   "4536946").<br>PN. OR ("4760031").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/02/17<br>00:21 |
| L89 | 467474 | (fiber near optic) or<br>(optical near fiber)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |

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| L90  | 12391 | L89 and L22 and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L91  | 4     | "2002033467"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L92  | 3     | "06196680"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:21 |
| L93  | 1     | 257/747.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L94  | 17    | 257/706.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L95  | 16    | 257/713.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L96  | 11    | 257/719.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L97  | 10    | 257/717.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L98  | 4     | 257/705.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L99  | 218   | hamamatsu.asn. and ("optical fiber" or "fiber optic") and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L100 | 142   | 257/447,460.ccls. and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L101 | 184   | (backlight or back-light) and ((fiber near optic) or (optical near fiber)) and (CCD or "photo-detector" or "photodetector" or "charge reader") and @ad<"20021009" | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |
| L102 | 0     | JP-11188033   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>00:21 |



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| L103 | 0      | JP-11188033\$   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L104 | 2      | "11188033"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/02/17<br>00:21 |
| L105 | 4      | "11188033"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L106 | 4      | "2000028735"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L107 | 3      | "06196680"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:21 |
| L108 | 4      | "11188033"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/02/17<br>00:21 |
| L109 | 1      | (substrate and surface and light\$1incident and charge and reading and coupled and device and thickness and thinner and region and package and guide and fiber and optic and wiring and electrodes and wall).clm. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:47 |
| L110 | 306750 | kobayashi.in.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:50 |
| L111 | 4      | (kobayashi near hiroya).in. and (image near pickup).ti.   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/17<br>00:51 |

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| L112 | 2      | "5614763".pn.                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/02/17<br>00:58 |
| L113 | 87     | 257/447.ccls. and<br>@ad<"20021009"           | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>01:36 |
| L114 | 720    | 257/432.ccls. and<br>@ad<"20021009"           | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>01:44 |
| L115 | 145    | 257/432.ccr. and<br>@ad<"20021009"            | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/02/17<br>01:44 |
| S1   | 2      | "10530754"                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/25<br>18:31 |
| S2   | 2      | "09199699"                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/25<br>19:10 |
| S3   | 4      | "2002033467"                                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/25<br>19:14 |
| S4   | 4      | "11188033"                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/25<br>19:15 |
| S5   | 2      | ("4760031").PN.                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/08/25<br>19:22 |
| S6   | 195538 | (image near pickup) or<br>(image near sensor) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:19 |

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| S7  | 221781 | (charge near read\$3) or<br>(charge near readout) or<br>CCD                  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:19 |
| S8  | 8824   | S6 same (housing or<br>package)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:20 |
| S9  | 533125 | (fiber near optic) or<br>(optical near fiber) or<br>(light near guid\$3)     | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:20 |
| S10 | 786    | S7 and S8 and S9   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:22 |
| S11 | 405    | S10 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:22 |
| S12 | 504    | S10 and (cap or lid or<br>cover)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:23 |
| S13 | 332    | S11 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:36 |
| S14 | 18931  | ((charge near read\$3) or<br>(charge near readout) or<br>CCD) same substrate | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:43 |
| S15 | 193    | S14 and S8 and S9  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/11<br>12:44 |

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|-----|--------|--|---|----|-----|---------------------|
| S16 | 332    | S13 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>12:44 |
| S17 | 175    | S15 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>12:45 |
| S18 | 190841 | "111" and substrate and<br>@ad<"20060202"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>12:46 |
| S19 | 240    | S12 and substrate and<br>@ad<"20060202"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>12:46 |
| S20 | 8      | ("4291275"   "4405915"  <br>"4583002"   "4621275"  <br>"4650984"   "4651015"  <br>"4916304").PN. OR<br>("5128532").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/09/11<br>13:11 |
| S21 | 36     | S17 not S19  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>13:14 |
| S22 | 101    | S19 not S17  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>13:16 |
| S23 | 400    | S12 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>13:22 |
| S24 | 2      | "5614763".pn.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/11<br>14:14 |

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|-----|--------|--|---|----|-----|---------------------|
| S25 | 37     | ("3969754"   "4556899"   "4788627"   "4872047"   "4884124"   "4916442"   "4942454"   "4962416"   "5134680"   "5172301"   "5252850").PN. OR ("5614763").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/09/11<br>14:22 |
| S26 | 284    | 257/432.ccls. and "optical fiber"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>14:27 |
| S27 | 182    | S26 and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>14:27 |
| S28 | 94     | 257/433.cor. and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>18:59 |
| S29 | 101    | 257/433.ccls. and "optical fiber" and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>19:00 |
| S30 | 11     | 257/434.cor. and "optical fiber" and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>19:03 |
| S31 | 1      | 257/447.cor. and "optical fiber" and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>19:04 |
| S32 | 31     | 257/e31.127.ccls. and "optical fiber" and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/11<br>19:05 |
| S33 | 91     | 257/e31.128.ccls. and "optical fiber" and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>10:14 |
| S34 | 195538 | (image near pickup) or (image near sensor)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>10:32 |
| S35 | 221781 | (charge near read\$3) or (charge near readout) or CCD  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>10:32 |
| S36 | 8824   | S34 same (housing or package)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>10:32 |
| S37 | 533125 | (fiber near optic) or (optical near fiber) or (light near guid\$3)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>10:32 |

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|-----|-----|--|---|----|----|---------------------|
| S38 | 786 | S35 and S36 and S37  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>10:32 |
| S39 | 405 | S38 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>10:32 |
| S40 | 332 | S39 and @ad<"20060202"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>10:32 |
| S41 | 199 | S40 and "optical fiber"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>10:32 |
| S42 | 12  | 257/e31.131.ccls. and<br>"optical fiber" and<br>@ad<"20021009" | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>10:48 |
| S43 | 0   | 257/291.cor. and "optical<br>fiber" and<br>@ad<"20021009"      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>10:50 |
| S44 | 8   | 257/291.ccls. and "optical<br>fiber" and<br>@ad<"20021009"     | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>11:01 |
| S45 | 0   | zetetic.in. and "optical<br>fiber" and<br>@ad<"20021009"       | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>11:12 |
| S46 | 1   | zetetic.asn. and "optical<br>fiber" and<br>@ad<"20021009"      | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>11:12 |
| S47 | 15  | zetetic.asn. and<br>@ad<"20021009"                             | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2008/09/12<br>11:13 |
| S48 | 2   | "09199699"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:45 |
| S49 | 2   | "62189883"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:45 |

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| S50 | 4      | "2002033467"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:46 |
| S51 | 4      | "11188033"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:47 |
| S52 | 4      | "2000028735"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:47 |
| S53 | 195538 | (image near pickup) or<br>(image near sensor)                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |
| S54 | 221781 | (charge near read\$3) or<br>(charge near readout) or<br>CCD              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |
| S55 | 8824   | S53 same (housing or<br>package)   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |
| S56 | 533125 | (fiber near optic) or<br>(optical near fiber) or<br>(light near guid\$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |
| S57 | 786    | S54 and S55 and S56  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |
| S58 | 405    | S57 and thickness  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/09/12<br>12:49 |

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| S59 | 228    | S58 and @ad< "20021009"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>12:50 |
| S60 | 2      | "4760031".PN.  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>12:53 |
| S61 | 20     | ("3796932"   "4040092"  <br>"4290187"   "4349742"  <br>"4477294"   "4536946").<br>PN. OR ("4760031").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/09/12<br>12:55 |
| S62 | 452215 | (fiber near optic) or<br>(optical near fiber)  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>12:58 |
| S63 | 12366  | S62 and S54 and<br>@ad< "20021009"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>12:59 |
| S64 | 4      | "2002033467"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>13:16 |
| S65 | 3      | "06196680"   | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>13:17 |
| S66 | 1      | 257/747.ccls. and ("optical<br>fiber" or "fiber optic") and<br>@ad< "20021009"                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:24 |
| S67 | 17     | 257/706.ccls. and ("optical<br>fiber" or "fiber optic") and<br>@ad< "20021009"                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:24 |
| S68 | 16     | 257/713.ccls. and ("optical<br>fiber" or "fiber optic") and<br>@ad< "20021009"                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:26 |
| S69 | 11     | 257/719.ccls. and ("optical<br>fiber" or "fiber optic") and<br>@ad< "20021009"                                 | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:28 |



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| S70 | 10  | 257/717.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:29 |
| S71 | 4   | 257/705.ccls. and ("optical fiber" or "fiber optic") and @ad<"20021009"   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>13:29 |
| S72 | 218 | hamamatsu.asn. and ("optical fiber" or "fiber optic") and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:07 |
| S73 | 142 | 257/447,460.ccls. and @ad<"20021009"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:31 |
| S74 | 184 | (backlight or back-light) and ((fiber near optic) or (optical near fiber)) and (CCD or "photo-detector" or "photodetector" or "charge reader") and @ad<"20021009" | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:43 |
| S75 | 0   | JP-11188033   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:54 |
| S76 | 0   | JP-11188033\$   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:54 |
| S77 | 2   | "11188033"  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2008/09/12<br>14:54 |
| S78 | 4   | "11188033"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/12<br>14:55 |
| S79 | 4   | "2000028735"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/13<br>13:06 |
| S80 | 3   | "06196680"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/09/13<br>15:44 |
| S81 | 4   | "11188033"  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/09/13<br>15:45 |

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